ABSTRACT

A device for projecting a color image upon a screen, including color image recording and color image reproduction with an enhanced color reproduction trueness in comparison to conventional processes. In the device two images are recorded in parallel, which separately detect the shorter and the longer wavelength parts of the individual principle color spectral regions. In image reproduction six primary valences are produced, which respectively comprise the image information of the shorter and the longer wavelength parts of each of the individual principle color spectral regions. In an alternative embodiment the device produces a full color, stereoscopic image reproduction, in which the three primary valences of the respective shorter wave part encode a stereoscopic half image and the three primary valences of the respective longer wavelength part encode the other stereoscopic half image.